

# 6FH5

## High-Mu Triode

7-PIN MINIATURE TYPE  
For VHF Tuner and Amplifier Applications

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . .	6.3 ± 10%	volts
Current at 6.3 volts . . . . .	0.2	amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield<sup>o</sup></i>	
Grid to plate. . . . .	0.6 max.	0.6 max.	μμf
Grid to cathode, internal shield, and heater . . . . .	3.2	3.2	μμf
Plate to cathode, internal shield, and heater . . . . .	3.2	4	μμf

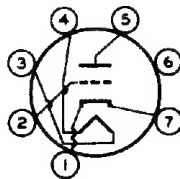
#### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Voltage. . . . .	135	volts
Grid Voltage . . . . .	-1	volt
Amplification Factor . . . . .	50	
Plate Resistance (Approx.) . . . . .	5600	ohms
Transconductance . . . . .	9000	μmhos
Plate Current. . . . .	11	ma
Grid Voltage (Approx.) for plate $\mu_a = 100$ . . . . .	-5.5	volts

#### Mechanical:

Operating Position . . . . . Any  
Maximum Overall Length . . . . . 2-1/8"  
Maximum Seated Length. . . . . 1-7/8"  
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" ± 3/32"  
Diameter . . . . . 0.650" to 0.750"  
Dimensional Outline. . . . . See *General Section*  
Bulb . . . . . T5-1/2  
Base . . . . . Small-Button Miniature 7-Pin (JEDEC No. E7-1)  
Basing Designation for BOTTOM VIEW . . . . . 7FP

Pin 1 - Cathode  
Pin 2 - Grid  
Pin 3 - Heater  
Pin 4 - Heater



Pin 5 - Plate  
Pin 6 - Internal  
Shield  
Pin 7 - Cathode



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DATA 1  
8-60

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## AMPLIFIER — Class A<sub>1</sub>

### Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. . . . .	150 max.	volts
GRID VOLTAGE:		
Positive-bias value. . . . .	0 max.	volts
CATHODE CURRENT. . . . .	22 max.	ma
PLATE DISSIPATION. . . . .	2.2 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . . . . .	100 max.	volts
Heater positive with respect to cathode . . . . .	100 max.	volts

### Maximum Circuit Values:

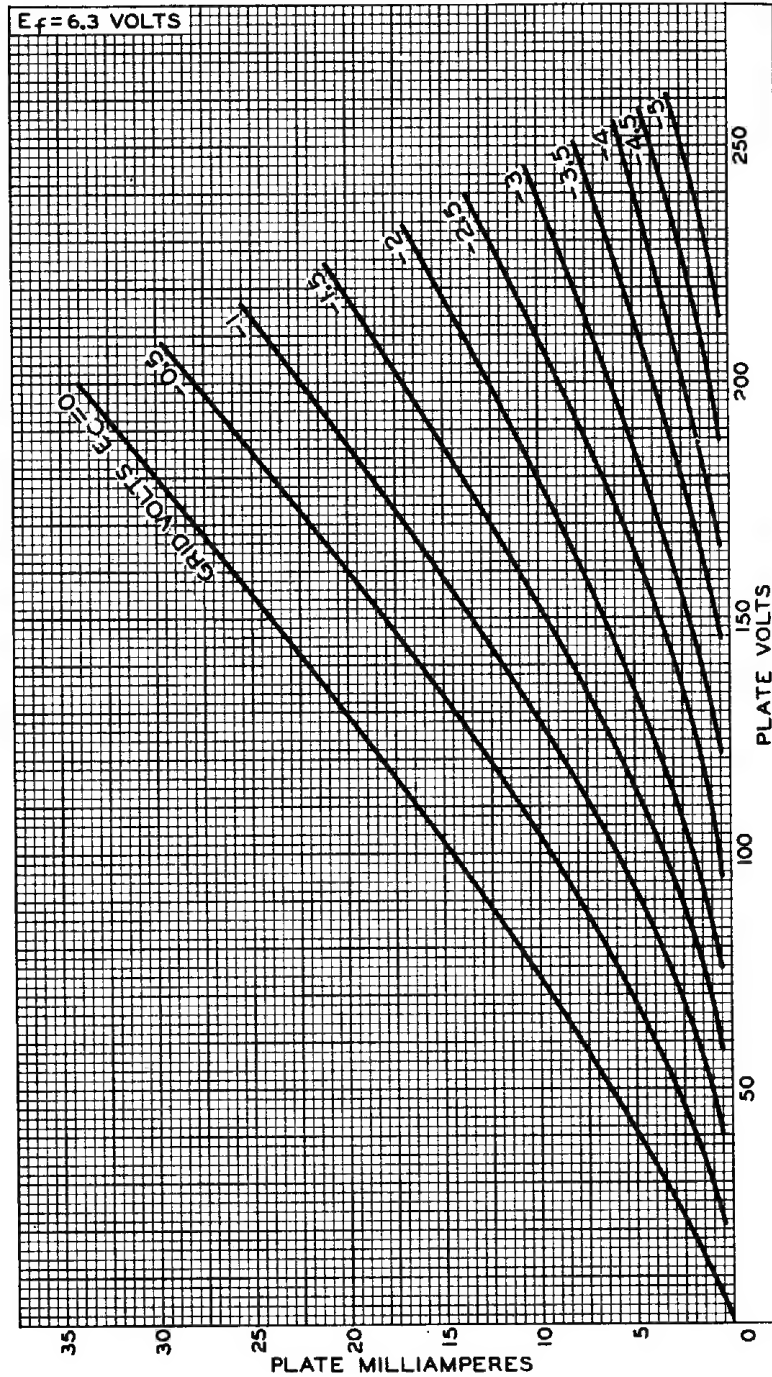
Grid-Circuit Resistance:		
For cathode-bias operation . . . . .	1 max.	megohm

◊ With external shield JEDEC No.316 connected to cathode.



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## AVERAGE PLATE CHARACTERISTICS



92CM-10355R1

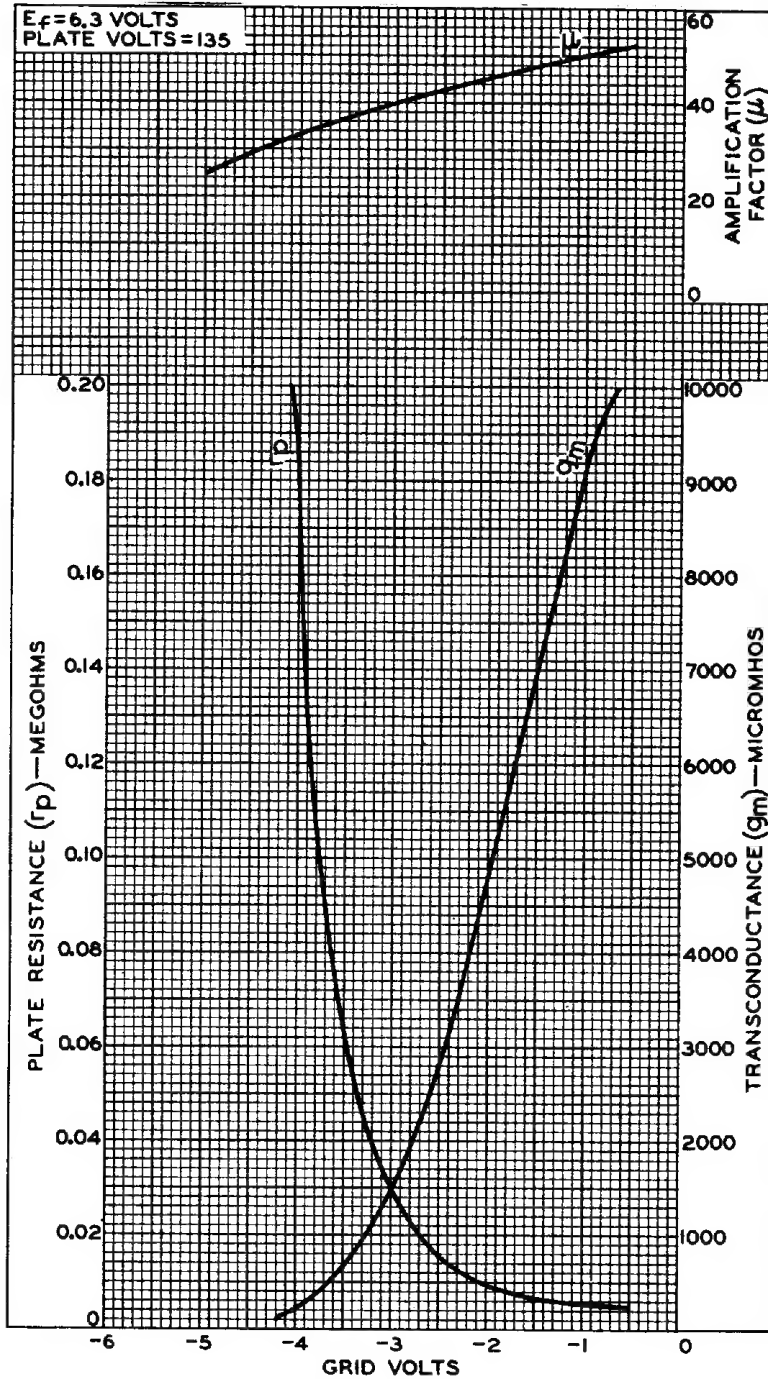


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DATA 2  
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# 6FH5

## AVERAGE CHARACTERISTICS



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